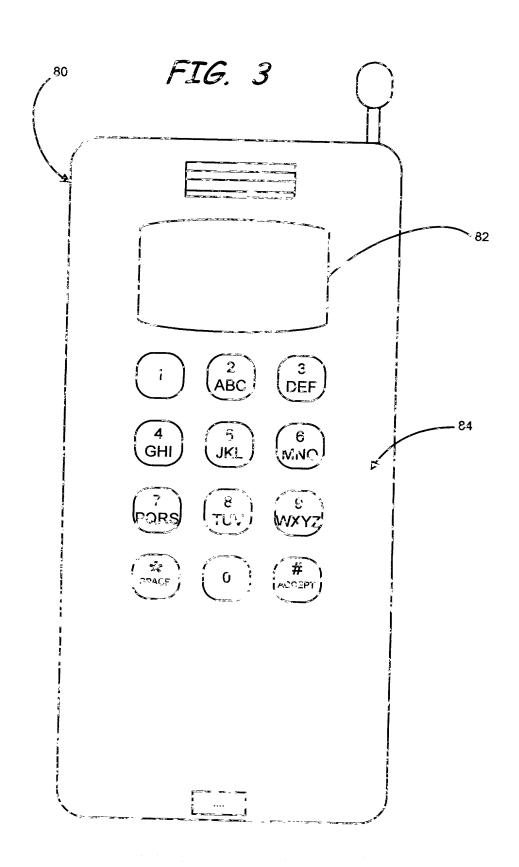
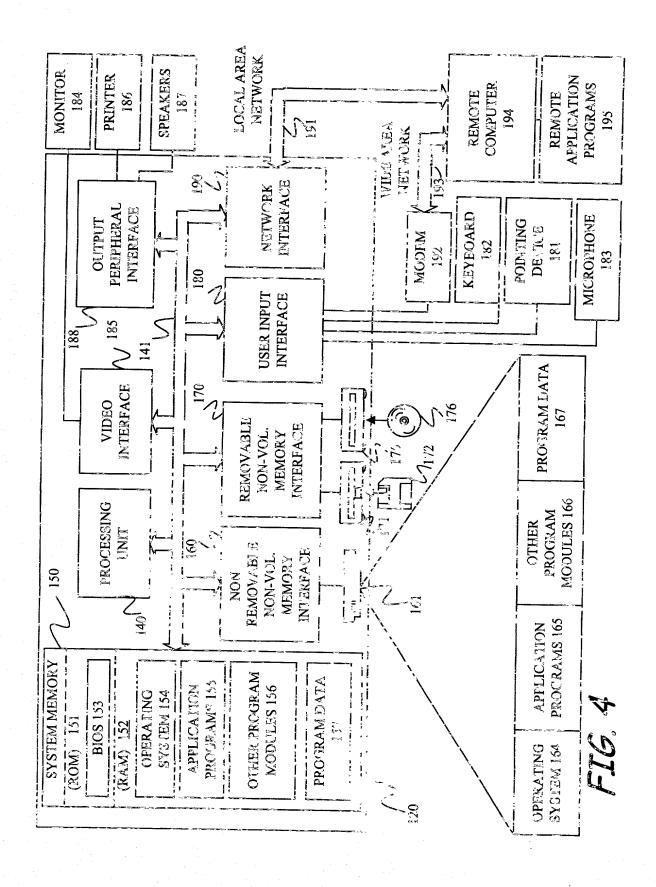
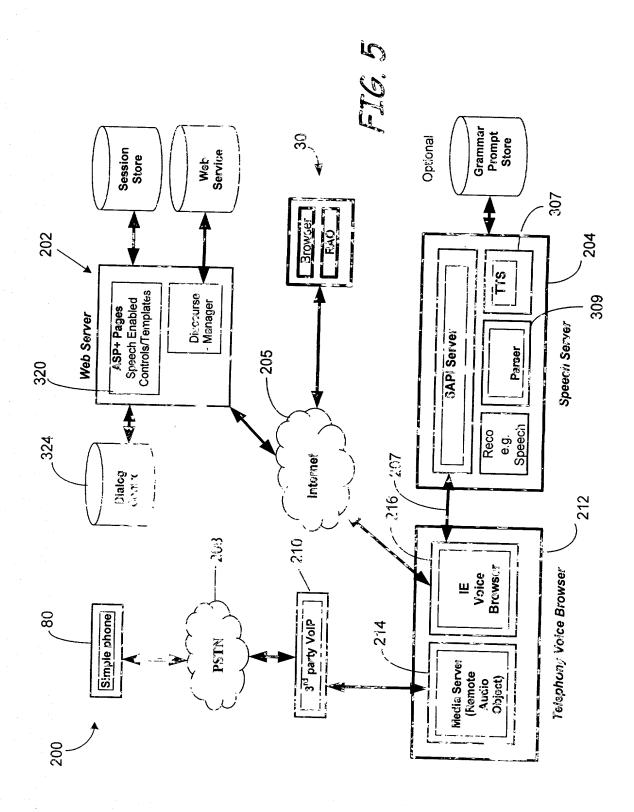


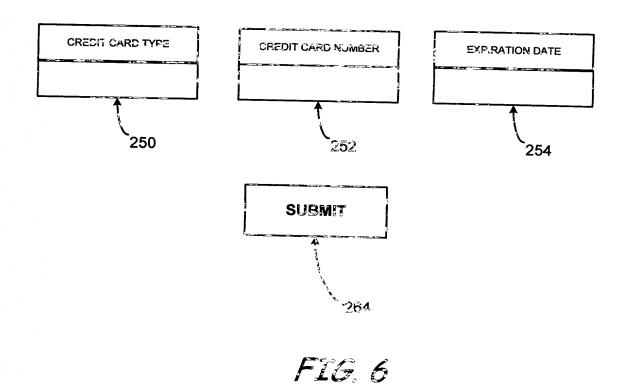
FI.5.2











```
var flag = window.confirm("submit the credit card info?");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1f (get_card_info.card_num.length != 16)
alert ("visa and master should have 16 digits");
<foin id=="_et_card_bafo" method="post" action="http://payment.asp">
                                                                                                                                                                                                                                                                                                                                                                             ..f :got_card_info.card_type.value == 'amex") {
   if (get_card_info.card_num.length:1= 15)-
                                                                                                                                                                                                                                                                                                                                                                                                                                       alert ("amex should have 15 digits");
                                                                                                                                                                                                                                                                <irbnt type="submit" value="Submit" onClick="verify()" />
                                                     <apption values *amex*>American Express</a>/option>
                                                                                                                                                                       <ipput type="text" name="card_num" width="30"</pre>
                                                                                                               <0,000 value."ms">Mas€erCard
                                                                                                                                                                                                                                <input cype="text" Dame="expiry_date" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     get_card_inf>.submit();
                                                                                   < อานเดย พลโนย= "ซไมล"> Visa</option>
                                                                                                                                                                                                      cnChange="handle()" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              function venify() (
                                                                                                                                                                                                                                                                                                                                                   function handle() (
                         scaled names "card_type">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (flag)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    } else
                                                                                                                                                                                                                                                                                                                       <scripr>< ([CLATA]
                                                                                                                                              < /56/e, $>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     </script>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               </\}\tm\>
```

```
270
        <html>
            <form id="" ___eard_info" method="post" action="http://payment.asp">
              <select name="card_type" onClick="talk(g_card_types)">
                 <option value="umex">American Express</option>
                 <option value="visa"> fisa</option>
                 <option value="ms">能し
                                          ....</option>
                                                                                  280
              </select>
              <recoid="g_card_types"onReso ="handle()">
                < grammar src=",/gram#card_types" />
290
              </reco >
               <input type="text" name="card_num" width="30"</pre>
                  onClick="talk(g_card_nam)" />
                                                                                   282
               <reco id="g_card_num "onReco = "handle()" >
                < grammar sm="./gram参digits"/>
               </reco >
               <input type="text" name="expiry_date"</pre>
                  onClick="taik(g_expiry_date)" />
               <reco id="g_expiry_date" >
                                                                                   284
                < grammar src = "
                                     ./gram#dates"/>
               </reco >
               <input type="submit" value="Submit" onClick="verify()" />
             </form>
             <script> <![CDATA[
                     function talk(gobj) {
                         gobj.activate();
    272
                     function handle() {
                         if (get_card_info.card_num != null) {
                             if (get_cara_into-card_type.value == "amex") {
                                if (get_card_nfo.card_num.length != 15)
                                   alert ("amex should have 15 digits");
                             } else
                                if (get_card_info.card_num.length != 16)
                                   alert ("visa and master should have 16 digits");
                     function verify()
                         var flag = window.cor: re('submit the credit card
                  info?");
                         if (flag) {
                               get_card_irfo.submit(),
                     }
               ]]>
             </script>
           </html>
```

```
<body>
               < form id = " gos_card_info " method = "post" action = " http://payment.asp "
                    onActivate = " welcom() ">
                < promot id =" p_welcome "> We now need your credit card -</ prompt>
                < prompt !d = " p_memble "> I didn't enderstand you 
300
                 < prompt id = " p _ aard_type " bargein = " true "> What credit card would you
            use? </ prompt >
                < prompt id =" രൂടെൻ്ലൂnum " bargein = " true "> Please say the number" </ prompt >
                 < prompt io =" [_Cmp18y_date " bargem ="true"> What is the expiration
            date? </ prompt >
                <- prompt id = " p_content ">
303 -
                     I have your < value select = " 2011 2190 " /> < value select = " card_num " />
                      with expiration date
                   < value select = " expiry_date " />
                 < prompt id =" p_comfirm "> Is this correct? </prompt>
                 onNoReco = " mumble(this, 2) " >
                 < grammar src = " ./gram #card_types '
                 </reco >
                 < reco id = " g_card_num " onNoReco = " mumble(this, 1) ">
onReco = " _handle(this, card_num) " />
                  < grammar src=" ./gram#digitts "/>
                 </reco >
< reco id = " g_expiry_date " onNoReco = " mumble(this, 1) " >
                 onReco =" _handle(this, expiry_Gate) " audio ="rao"/>
< grammar src =" ./gram#dates "/>
</reco >
./gram#dates "/>
   305-
                   eco id=" confirmation " onReco
< grammar src=" ./gram#yesቤት"/>
/reco >
                < reco id = " confirmation "</pre>
                                                           =" confirmed(this) "/>
                 </reco > < select name = " card_type ">
                     < option value = "amex"> American Fxpress </ option >
                      < option value = "visa"> Visa </ option >
                      < option value ="ms"> Masser@ard </ option >
                   < input type = "text" name = "card_num " width = "30 " />
                   < input type = "text" name = "@xpiry_ date"/>
                   < input type = " ವಿಚಿರ್ಥಾಣಿ " value = " ತೀರಿರಾಜಿ " />
                </form >
               < script > < '{CDATA(
                       function welcome() {
                         p_welcome.active():
                         repeat = 0;
                         checkFilled().
  302
                        function mumble (qcbi, maxplompts) {
                         gobj.deactivate();
                         p_mumble.active();
                         checkFil led').
                      to Fig. 98
                                                              FIG. 9A
```

```
function _handle() {
               handla();
                checkFilled();
             function checkFilled() {
  if (card_type.value == "") {
    p_card_type.active();
    g_card_types.activate(); return;
}
                 if (card_num.value =="") {
    p_card_num.active(); g_card_num.acti vate(); return;
                 if (expiry_date.value == "") {
    p_expiry_data.attive(); g_expiry_date.activate(); return;
                p_content.activate();
p_confirm.activate();
                confirmation.activate();
          }
             function confirmed(gobj) {
    if (gobj.recogRes.text == "yes")
        get_card_info.submit();
                   user codes start here
             function handle() {
                 if (get_card_info.card_type == "amex") {
   if (get_card_info.card_num.length != 15) {
      prompt.speak ("amex_should have 15 digits");
      get_card_info.card_num = "";
}
                } eise
                      if (get_card_info.card_num.length != 16) {
    prompt.speak ('viba and master should have 16 digits");
    get_card_info.card_num = "";
</body>
```

FIG. 9B

```
<body>
    <form ig="gc" = ___info" method="post" action="http://payment.asp"
                        'me()">
       onactivate
                          nome">We now need your credit card</prompt>
       prompt ...
       prompt id='; _
                           blo">I didn't :== ^ rstand you</prompt>
                            cype" bargein="L_3">What credit sard would you
       prompt id= "p_@"
use?</prompt>
       cprompt id="p___ J_num" bargein="toue">Please say the number
       cprompt id="p_c__ary_dake" bargein="true">What is the expiration
date?</prompt>
       compt id="p_comtent">
         I have your <value select="card_rype" /><value select="card_num" />
  with expiration date <value select="expirat_date" />
       mpt>
       confirm*>Is this correct?
       <reco id="g_get_card_info" cnReco="_handle()" onNoReco ='mumble(this)">

                      src ="./gram/getPayment".
          <grammar
          <bind target="card_type" value="/card/type"/>
          <bind target="card_num" value="/card/number" />
405 -
          <bind target="expiry_date" value="/card/expr_date"/>
       <reco id="confirmation" onReco ="ോണ്നാര്(this) onNoReco="mumble(this)" />
         <grammar src ="./gram#yesno"/>
       </reco >
<select name="card_type">
          <option value="amex">American Express</option>
          <option value="visa">Visa</option>
          <option value="ms">MasterCard</option>
       </select>
       <input type="text" name="card_num" #iitn="30" />
       <input type="text" name="expiry_dore" />
       <input type="su_mit" value="Submit' />
    <, form>
    <script><เกียวAT/เรี
function well.
           p_welcome. Laive();
repeat = 0;
aloci [] Peach;
         ກັ້ນກວຽງວາ ກະພຸຍິໄe(pobj) {
           goof.deactivate();
           p_mumble.active();
check.illed();
                                                   FIG. 10A
         function _nandle() {
  handle();
  checkeilled();
      TO FIG. 19B
```

FIG. 10B

```
SAMPLE ASP+ PAGE
<%0 Poje language="Jscript" AutoEventWireup="false" Inherits="Credit.Transaction" %>
<html><head>
<!-- ASPX page for both voice-only & multimodal credit card example -->
<script>
function handle() {
         if (field == get card info.card num) {
            if (get and info.card num.length != 15) {
             prompt. speak ("amex should have 15 digits");
             get_card_info.card_num = "":
            }
         } else
            if (get_card_info.card_num.length != 16)
             prompt.speak ("visa should have 15 digits"):
             get card info.card num = "";
function gensml() {
      str = '<sml><credit_card><card_type>':
       str += card_type.value; str += '</card_type><number>;;
       str += card_number.value; str += '</number><expire>';
       str += expiry_date.value; str += '</expire></credit card></sml>';
       return str;
</script>
<script runat="server">
function Page Load (obj, args) {
      if (PostBack) {
         validator = new System.Speech.SMLValidator("./CreditSDL.xml");
          dsml = validator.Evaluate(args);
         Navigate(ChoosePage(dsml));
       } else {
        // initialize fields with args
</script>
</head>
<body>
<speech:form id="get_card info" style="system_initiative"</pre>
      prompt=" 'prompt/getFayment" cnsubmit="gensml()">
  <speech:choice name="card_type" prompt="What credit card would you use?"</pre>
      grammar="./gram#card_types" onPhraseTanish="handle()"
       <option/American Express</option>
      <option>Visa</option>
       <option>Mastercard </option>
  </speech:choice>
  <speech:textbox rams="card_number" prompt='Please say the number"</pre>
       grammar=" /gram#digits" onPhraseFinish="handle()">
  <speech:textbox name="empiry_date" prompt="What is the expiration date? "</pre>
      grammar="./gram#dates" onPhraseFinish="handle()"/>
</speech:form>
</body>
</html>
```

